Abstracts

A photoelectric sensor outputs a signal by a first signal read mode and a second signal read mode. In the first signal read mode, the sensor outputs the pixel signals accumulated in the plural while subsampling the pixel signals for every one line. In the second signal read mode, the sensor outputs sequentially the pixel signals accumulated in two the plural pixels while adding the pixel signals from two pixels adjoining each other. An interlace/non-interlace converter converts the signal output by the photoelectric sensor in the first signal read mode to a non-interlaced signal. A signal processor generates a first video signal by converting the signal converted by the interlace/non-interlace converter into a specified image format in the first signal read mode, and generates a second video signal by converting the signal output by photoelectric sensor into the specified image format, such as a 4:2:2 YUV signal. A rate converter converts the number of output images per a unit time of the second video signal into another number. An encoder generates a first image data or a second image data by compressing the first or second video signals output from the signal processor according to an encoding method such as JPEG. A memory device memorizes the first or second image data output from the encoder. A decoder reproduce the first video signal by decoding the first image data memorized in the memory device.